



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 12, 2019

Ms. Maryanne Geisbush
Regulatory Consultant
Duke's Root Control, Inc.
c/o Pyxis Regulatory Consulting Inc.
4110 136th St. Ct. NW
Gig Harbor, WA 98332

Subject: Notification per PRN 98-10 – Adding alternate brand name and updating company information
Product Name: Razorooter II
EPA Registration Number: 94625-3
Application Date: October 9, 2019
Decision Number: 557010

Dear Ms. Geisbush:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

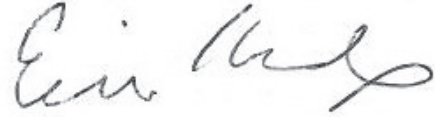
The alternate brand name Razorooter has been added to the product record.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, you may contact please contact BeWanda Alexander at (703)347-0313 or by email at alexander.bewanda@epa.gov.

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Sincerely,

A handwritten signature in black ink, appearing to read "Erik Kraft". The signature is written in a cursive style with a large, sweeping flourish at the end.

Erik Kraft, Product Manager 24
Fungicide and Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

[Note to reviewer: [Text] in brackets denotes optional text].

RAZORROOTER II™

[Alternate Brand Name: RAZORROOTER®]

For use to control tree root intrusions in sanitary sewers, storm drains, and other drainage systems.

ACTIVE INGREDIENT:	By Weight
Diquat dibromide [6,7-dihydrodiprido (1,2-a:2',1'-c) pyrazinedium dibromide]	37.3%
OTHER INGREDIENTS:	<u>62.7%</u>
TOTAL:	100.0%

This product contains 2-lbs. diquat cation per gal. as 3.73 lbs. salt per gal.

KEEP OUT OF REACH OF CHILDREN CAUTION

<u>FIRST AID</u>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
<u>Hot Line Number</u>	
For 24-hour Emergency medical assistance call Prozar: 1-800-291-7661.	
Note to Physician: Call Prozar 1-800-291-7661 at any hour to obtain toxicology information and a diquat analysis. To be effective, treatment for diquat poisoning must be performed IMMEDIATELY. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.	

See [Side/Back/Other] Panel for Additional Precautionary Statements

EPA Reg. No. 64898-894625-3

EPA Est. No. XXXXX-XX-XXX

Net Contents: _____

Made in U.S.A.

~~Sewer Sciences, Inc. Duke's Root Control, Inc. (DRC)-(SS)~~

1020 Hiawatha Blvd. West

Syracuse, NY 13204

NOTIFICATION

94625-3

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

11/12/2019

PRECAUTIONARY STATEMENTS

Hazards to Humans

CAUTION: Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chew gum or using tobacco. Avoid contact with eyes or clothing. Wear protective eyewear. Wear long sleeve shirt and long pants, socks, shoes and gloves.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants.
- Chemical-resistant gloves.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant apron when cleaning equipment, mixing, or loading.
- A dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

EXCEPTION: If a closed system is used during mixing, dilution, product transportation, and cleaning, and applications will be made to closed, subsurface sewers and drains, and the product will be diluted in the closed system with water at a ratio of at least 1 part product to 50 parts water prior to use, then applicators, mixers, loaders, and other handlers may wear:

- Short sleeved shirt-and-long-pants
- Shoes plus socks
- Waterproof gloves

Emergency Information

For spill, leak, fire, exposure, or accident, call CHEMTREC at **1-800-424-9300**.

Environmental Hazards

This pesticide is toxic to aquatic invertebrates. Keep out of lakes, ponds, and streams. Do not apply directly to water bodies, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Keep off lawns and plants, as they may be severely injured. Foam should be shoveled off planted areas immediately rather than washing off with water.

Notify appropriate wastewater agency prior to use of this product so that it may monitor the operations of the wastewater treatment plant.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Do not enter manholes or other confined space areas adjacent to treated areas until all foam or spray has dried and always use full Federal and State OSHA mandated procedures for confined space entry.

PRODUCT INFORMATION

RAZORROOTER II™ is uniquely suited to sewer applications. RAZORROOTER II™ is a soluble liquid designed to control tree roots in sewer, on contact. RAZORROOTER II™ is a non-selective herbicide, which works on all varieties of tree roots and will not harm above-ground vegetation, when applied according to label instructions. RAZORROOTER II™ is not volatile, and will not produce toxic gases.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not use in potable water systems. Do not use in storm, field or other drains unless effluent is treated in a sanitary sewer system.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Refer to the personal protective equipment information under Precautionary Statements and use all required protective clothing and equipment.

RAZORROOTER II™ may be applied directly to sewers either as a high-pressure spray or as a foam. RAZORROOTER II™ may be applied in conjunction with herbicides, surfactants and foaming agents available through [FPL-DRC](#). RAZORROOTER II™ is not compatible with anionic surfactants.

Consider pipe size, sewer flow, lateral conditions, line obstructions, and severity of root intrusion in selecting proper application technique.

Mixing Instructions

Before mixing, determine the scope of work, including pipe size and overall lineal footage, while assessing field conditions. Using the charts below as guidance, determine the amount of solution required for the job.

Small Diameter Pipes

Total Gallons Prepared Solution	Treatment Area (Lineal Feet) per Pipe Diameter				
	4"	6"	8"	10"	12"
10	300'	140'	80'	50'	35'
100	3000'	1400'	800'	500'	350'
200	6000'	2800'	1600'	1000'	700'
300	9000'	4200'	2400'	1500'	1050'

Large Diameter Pipes

Total Gallons Prepared Solution	Treatment Area (Lineal Feet) per Pipe Diameter								
	15"	18"	21"	24"	27"	30"	36"	42"	48"
10	35'	27'	23'	20'	17'	15'	12'	11'	10'
100	350'	270'	230'	200'	170'	150'	120'	110'	100'
200	700'	540'	460'	400'	340'	300'	240'	220'	200'
300	1000'	810'	690'	600'	510'	450'	360'	330'	300'

Prepare solution by mixing at a rate of 2 quarts of RAZORROOTER II™ per 100 gallons of water. Use only clean, fresh water to prepare the solution. Prepare enough solution to complete the job, or to fill the solution tank, whichever is less. Use solution promptly after mixing.

If foaming method will be used, add the amount of foaming agent required to produce 20 gallons of foam per gallon of solution, as prepared above. Only use foam-making equipment approved by [FPL-DRC](#), and additives approved by [FPL-DRC](#) which specifically state "for use with RAZORROOTER II™" on the label. RAZORROOTER II™ is not compatible with anionic surfactants.

Spray Application

Prepared RAZORROOTER II™ solution may be sprayed into sewers at various pressures and flow rates, depending upon the capabilities of the application equipment. Do not exceed the equipment manufacturer's recommendations for pressures and flow rates.

Begin at downstream sections of the area to be treated. Insert the spray discharge hose through the length of the pipeline intended for treatment. Spray the prepared RAZORROOTER II™ solution under pressure as the hose is retrieved. Retrieve the discharge hose at a rate sufficient to contact and saturate all root masses in the pipeline with RAZORROOTER solution, applying to the point of runoff. Monitor tank level and solution flow rate to calibrate discharge hose retrieval rate, in order to evenly apply all prepared solution.

Treat large pipes (15" or larger in diameter) with a hose fitted with skids designed to elevate the discharge nozzle. This will center the discharge nozzle in the pipe and enhance performance. Contact [FPL-DRC](#) to obtain skids, if needed.

Treat manholes by retrieving hose vertically while spraying walls to the point of runoff. Do not re-enter manholes until sprays have dried.

Foam Application

Mixing prepared RAZORROOTER II™ solution with foam during application extends contact time of roots with product, and helps product to reach roots in lateral connections. Foam application equipment used with RAZORROOTER II™ must be approved by [FPL-DRC](#) and used only by applicators trained to operate the equipment. Training in RAZORROOTER II™ application by foam is available from [FPL-DRC](#).

Begin at downstream sections of the area to be treated. Insert the spray discharge hose through the length of the pipeline intended for treatment. Spray the prepared RAZOROOTER II™ solution and foam under pressure as the hose is retrieved.

Treat manholes by applying a 3" layer of foam to walls while retrieving hose vertically. Do not re-enter manholes until foam has dried.

Building Laterals: Building laterals may be treated using the foaming method by injecting the foam via flow-through inflatable cleanout plugs. Cap or plug all drain lines, cleanouts, and fixtures that tie into the line being treated. Determine the lateral pipe size and length and operate equipment for the time it takes to produce the required amount of foam. Use caution to prevent plug blow out.

STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

Pesticide Storage: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs or drinking water. Do not store or transport near feed or food. Store at temperature above 32°F. For help with any spill, leak, fire or exposure involving this material; call CHEMTREC (1-800-424-9300).

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal [less than 5 gallons]: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Container Handling [Bulk/Mini-Bulk]: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of container in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Container Precautions: Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

Refill Only With RAZOROOTER II™. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than RAZOROOTER II™ will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

WARRANTY STATEMENT

[SSI+DRC](#) and Seller warrant that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to [SSI+DRC](#) or Seller, and buyer assumes the risk of any such use.

[RAZOROOTER II™ is a trademark of [SSI+DRC](#).]

[RAZOROOTER® is a trademark of DRC.]

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